Mast Chains

Mast Chains - Utilized in different functions, leaf chains are regulated by ANSI. They can be used for forklift masts, as balancers between heads and counterweight in some machine gadgets, and for tension linkage and low-speed pulling. Leaf chains are sometimes also known as Balance Chains.

Construction and Features

Leaf chains are steel chains utilizing a simple link plate and pin construction. The chain number refers to the lacing of the links and the pitch. The chains have particular features like for instance high tensile strength for each section area, that enables the design of smaller devices. There are B- and A+ type chains in this series and both the AL6 and BL6 Series comprise the same pitch as RS60. Lastly, these chains cannot be powered utilizing sprockets.

Handling and Selection

Comparably, in roller chains, all of the link plates maintain higher fatigue resistance due to the compressive stress of press fits, whereas in leaf chains, just two outer plates are press fit. The tensile strength of leaf chains is high and the maximum allowable tension is low. Whenever handling leaf chains it is important to check with the manufacturer's catalogue to be able to guarantee the safety factor is outlined and use safety guards always. It is a great idea to carry out utmost caution and use extra safety measures in applications wherein the consequences of chain failure are serious.

Utilizing much more plates in the lacing causes the higher tensile strength. In view of the fact that this does not enhance the most permissible tension directly, the number of plates utilized may be limited. The chains require regular lubrication since the pins link directly on the plates, producing an extremely high bearing pressure. Making use of a SAE 30 or 40 machine oil is frequently suggested for nearly all applications. If the chain is cycled more than one thousand times daily or if the chain speed is more than 30m for every minute, it would wear really quick, even with continual lubrication. Hence, in either of these conditions utilizing RS Roller Chains will be much more suitable.

The AL-type of chains must just be used under particular conditions like when wear is not a big concern, when there are no shock loads, the number of cycles does not exceed one hundred daily. The BL-type would be better suited under different situations.

The stress load in components will become higher if a chain utilizing a lower safety factor is selected. If the chain is also utilized amongst corrosive situations, it could easily fatigue and break very quick. Performing regular maintenance is really vital when operating under these kinds of conditions.

The kind of end link of the chain, whether it is an inner link or outer link, determines the shape of the clevis. Clevis connectors or otherwise called Clevis pins are constructed by manufacturers but normally, the user provides the clevis. An improperly constructed clevis could reduce the working life of the chain. The strands should be finished to length by the manufacturer. Refer to the ANSI standard or call the producer.